

Recombinant Human ERBB2 Protein (Met1-Thr652), HlgG1 Fc-tagged, Biotinylated

Cat. No. ERBB2-1110H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human ERBB2 Protein (NP_004439.2, 1-652aa), was produced in HEK293 Cells with C-terminal human IgG1 Fc tag and biotinylated conjugate (purified protein, in vitro biotinylation).
Species	Human
Source	HEK293
ProteinLength	1-652 aa
Description	Epidermal growth factor receptor 2 (HER2), also known as ErbB2, NEU, and CD34, is a type I membrane glycoprotein, and belongs to the epidermal growth factor (EGF) receptor family. HER2 protein cannot bind growth factors due to the lacking of ligand binding domain of its own and autoinhibited constitutively. However, HER2 forms a heterodimer with other ligand-bound EGF receptor family members, therefore stabilizes ligand binding and enhances kinase-mediated activation of downstream molecules. HER2 plays a key role in development, cell proliferation and differentiation. HER2 gene has been reported to associate with malignancy and a poor prognosis in numerous carcinomas, including breast, prostate, ovarian, lung cancers and so on.
Predicted N Terminal	Thr 23
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and

 Tel: 1-631-559-9269 1-516-512-3133

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0.01% Tween80 are added as protectants before lyophilization.

Molecular Mass

The recombinant human ErbB2/Fc chimera is a disulfide-linked homodimeric protein generated by proteolytic removal of the signal peptide. The monomer consists of 868 amino acids and predicts a molecular mass of 96.1 kDa.

Endotoxin

< 1.0 EU per µg protein as determined by the LAL method.

Purity

> 95 % as determined by SDS-PAGE.

Stability

Samples are stable for up to twelve months from date of receipt at -70 centigrade.

Storage

Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.

Shipping

In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature.

Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Conjugation

Biotin

GENE INFORMATION

Gene Name

ERBB2 v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian) [Homo sapiens]

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Official Symbol	ERBB2
Synonyms	ERBB2; CD340; HER 2; HER2; NEU; herstatin; p185erbB2; NGL; TKR1; HER-2; MLN 19; HER-2/neu;
Gene ID	2064
mRNA Refseq	NM_001005862
Protein Refseq	NP_001005862
MIM	164870
UniProt ID	P04626

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